KIPP & ZONEN

Passion for Precision

PM-Series Pyranometer Mounts

Operational Manual



810306-EN | V1 (10/2026)

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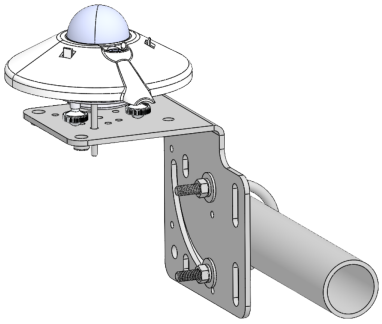
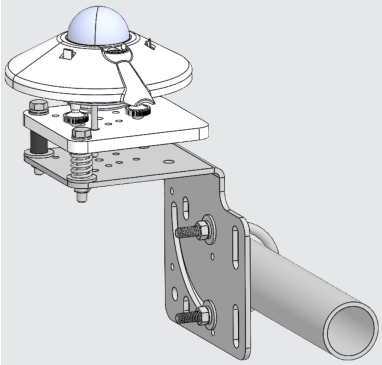
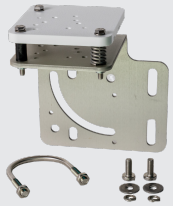
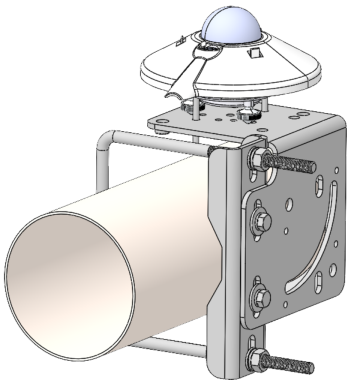
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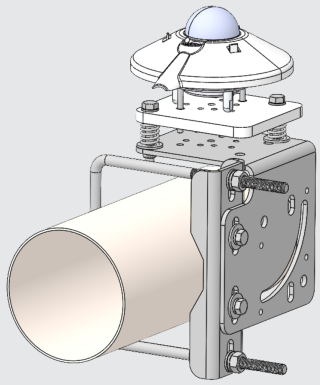
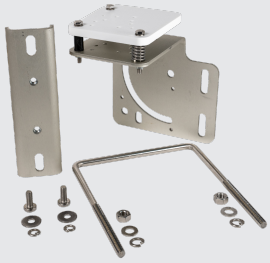
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1 Scope of supply

The scope of supply for each mounting solution is detailed below:

Mounts	What's in the bag	
PM100 	**Item Number: 810306-01** 	**Crossarm/Mast Pyranometer Mount** – **Pyranometer mounting bracket** – **M8 common hardware bag**: 2x screws, 2x lock washers, 2x oversized washers, 2x nuts – **M8 mast/crossarm hardware bag**: 1x round U-bolt, 2x lock washers, 2x oversized washers, 2x nuts
PM100 Pro with AccuTilt Leveling 	**Item Number: 810306-03** 	**Crossarm/Mast Pyranometer Mount + Insulated Leveling Plate** – **Pyranometer mounting bracket / leveling plate assembly** – **M8 common hardware bag**: 2x screws, 2x lock washers, 2x oversized washers, 2x nuts – **M8 mast/crossarm hardware bag**: 1x round U-bolt, 2x lock washers, 2x oversized washers, 2x nuts **NOTE**: Pro variants include an insulated leveling plate pre-installed on the mount.
PM200 	**Item Number: 810306-04** 	**Torque Tube Pyranometer Mount** – **Pyranometer mounting bracket** – **M8 common hardware bag**: 2x screws, 2x lock washers, 2x oversized washers, 2x nuts – **M10 torque tube clamp hardware bag**: 1x clamp bracket, 1x square U-bolt, 2x lock washers, 2x washers, 2x nuts

Mounts	What's in the bag	
PM200 Pro with AccuTilt Leveling 	**Item Number: 810306-06** 	**Torque Tube Pyranometer Mount + Insulated Leveling Plate** – **Pyranometer mounting bracket / leveling plate assembly** – **M8 common hardware bag**: 2x screws, 2x lock washers, 2x oversized washers, 2x nuts – **M10 torque tube clamp hardware bag**: 1x clamp bracket, 1x square U-bolt, 2x lock washers, 2x washers, 2x nuts – **Fixed feet** **NOTE**: Pro variants include an insulated leveling plate pre-installed on the mount.

1.1 Order numbers and variant code

1.1.1 Product variants

Variant	Order number
PM100	810306-01
PM100 Pro with AccuTilt Leveling	810306-03
PM200	810306-04
PM200 Pro with AccuTilt Leveling	810306-06

2 About this manual

This operational manual applies to devices with order numbers starting with 810306.

2.1 General signs and symbols

The signs and symbols used in the operational manual have the following meaning:

Practical tip

This symbol indicates important and useful information.

Action

✓ Prerequisite that must be met before performing an action.

▸ Step 1

⇨ Intermediate result of an action

▸ Step 2

⇨ Result of a completed action

List

– List item, 1st level

– List item, 2nd level

2.2 Explanation of warnings

To avoid personal injury and material damage, you must observe the safety information and warnings in this manual. The warnings use the following danger levels:

WARNING

WARNING

This indicates a potentially hazardous situation. If the hazardous situation is not avoided, it may result in death or serious injuries.

CAUTION

CAUTION

This indicates a potentially hazardous situation. If the hazardous situation is not avoided, it may result in moderately serious or minor injuries.

NOTICE

NOTICE

This indicates a situation from which damage may arise. If the situation is not avoided, products may be damaged.

2.3 Warnings and Installation Safety Notices

2.3.1 Quick Reference: Key Installation Risks

Risk	Potential consequence	Immediate control
Fall from height	Serious injury or fatality	Use approved access and fall-protection equipment.
Falling objects	Impact or head injury	Secure tools and parts; establish an exclusion zone below.
Electrical exposure	Shock or burns	De-energize associated equipment where possible; qualified personnel only.
Weak support structure	Assembly detachment	Verify the mounting surface and support capacity before work starts.
Incorrect fastener tightening	Movement, damage, or detachment	Use specified hardware and torque values; verify final tightening.
Sharp edges and pinch points	Cuts or hand injury	Wear gloves and keep hands clear during adjustment.
Damaged cable	Fault, short circuit, or unreliable measurement	Prevent pinching, abrasion, sharp bends, and strain.
Weather and lightning	Loss of control, fall, or lightning injury	Stop work during thunderstorms, strong wind, ice, or unsafe weather.
Hot surfaces	Contact burn	Sun-heated metal may cause burns; use gloves or allow cooling.
Corrosion or loosening	Delayed structural failure	Inspect the assembly periodically and after severe events.

2.3.2 Safety Warnings for the Manual

WARNING

Installation shall be performed only by trained personnel familiar with work-at-height controls, safe outdoor installation practices, and applicable site electrical-safety requirements.

WARNING

Use suitable fall protection when working on roofs, ladders, masts, poles, towers, or other elevated locations.

WARNING

Secure tools, fasteners, the bracket, and the pyranometer against falling. Keep personnel out of the area below the installation location.

WARNING

Do not install, adjust, or service the equipment during lightning activity, strong winds, icing, or other unsafe weather conditions.

WARNING

Before installation, verify that the supporting structure and attachment points are suitable for the equipment weight and expected environmental loading. A weak, damaged, or corroded support can allow the assembly to detach.

WARNING

Use only the specified mounting hardware. Tighten fasteners to the values stated in the installation instructions and verify that the final assembly is secure.

WARNING

Where work is near energized equipment, follow site electrical-safety controls. De-energize associated equipment where possible. Electrical work shall be performed only by qualified personnel.

WARNING

Where protective or functional bonding is required by the product design, complete and verify the bonding connection before commissioning.

2.3.3 Cautions and Notices



CAUTION

Metal parts may have edges or adjustment slots that can cut or pinch. Wear suitable gloves and keep hands clear while positioning and tightening the assembly.

CAUTION

Route the sensor cable so it cannot be crushed, pinched, stretched, abraded, sharply bent, or exposed to a sharp edge.



CAUTION

Metal surfaces exposed to direct sunlight may become hot. Allow components to cool or use suitable hand protection.

NOTICE

Do not modify the bracket, drill additional holes, substitute unapproved fasteners, or use the mounting system outside its specified environmental and loading limits.

2.3.4 Residual Risks and Inspection

Fall risk associated with access to elevated installation locations.
Injury caused by dropped tools or components.
Failure of a customer-supplied support or attachment point.
Exposure to severe weather or solar-heated surfaces.
Hazards caused by incorrect installation, unauthorized modification, corrosion, or insufficient maintenance.

Recommended inspection points

Fasteners remain present, correctly seated, and secure.
Bracket and support show no cracking, deformation, corrosion, or impact damage.
Cable and cable restraints show no crushing, abrasion, excessive tension, or sharp bends.
Bonding connection, where applicable, remains intact.
Sensor orientation and mechanical stability remain acceptable.

3 General safety instructions

3.1 Intended use

The PM-Series Pyranometer Mounts are intended for the secure installation and positioning of pyranometers on crossarms, masts, and torque tubes in meteorological stations, solar energy systems, and environmental monitoring networks. The mounts provide a stable mounting interface for pyranometer measurements and are available with optional insulated leveling plates to facilitate accurate sensor alignment.

3.2 Potential misuse

Any use of the product that does not comply with the intended use, be this intentional or negligent, is forbidden by the manufacturer.

- Use the product only as described in the operational manual.

3.3 Operator obligations

This section is addressed to the system operator or installer responsible for the safe installation, commissioning, and overall use of the product.

The installer is responsible for observing the safety regulations. Unqualified personnel working on the product can cause risks that could lead to serious injury.

- Have all activities carried out by qualified personnel.
- Ensure that everybody who works on or with the product has read and understood the operational manual.
- Ensure that safety information is observed.
- File the operational manual together with the documentation of the entire system and ensure that it is accessible at all times.

3.4 Personnel obligations

This section is addressed to all personnel who operate, handle, or work with the product during its lifecycle.

To avoid equipment damage and injury when handling the product, personnel are obliged to the following:

- Read the operational manual carefully before using the product for the first time.
- Pay attention to all safety information and warnings.
- If you do not understand the information and procedure explanations in this manual, stop the action and contact the service provider for assistance.
- Wear the necessary personal protective equipment.

3.5 Correct handling

If the product is not installed, used and maintained correctly, there is a risk of injury. The manufacturer does not accept any liability for personal injury or material damage resulting from incorrect handling.

- Install and operate the product under the technical conditions described in the operational manual.
- Do not change or convert the product in any way.
- Do not perform any repairs yourself.
- Get to examine and repair any defects.
- Ensure that the product is correctly disposed of. Do not dispose of it in household waste.

3.6 Product Risk Assessment - Certification

Scope and Assessment Basis

This assessment addresses hazards associated with the mounting bracket and foreseeable installation, adjustment, servicing, and outdoor exposure. It follows the ISO 12100 risk-reduction hierarchy and considers IEC/EN 61010 topics relevant to documentation, mechanical hazards, strength, accessible conductive parts, environmental effects, and foreseeable single-fault conditions.

Product Definition

Product	Metal mounting assembly for securing a pyranometer to a fixed outdoor support.
Intended users	Professional installers, service technicians, and maintenance personnel.
Life-cycle phases	Transport, unpacking, installation, adjustment, commissioning, inspection, maintenance, and removal.
Installation environments	Outdoor structures such as rails, poles, masts, rooftops, and monitoring stations, subject to the approved product specification.
Foreseeable misuse	Weak supports, incorrect or substituted fasteners, wrong tightening, unsafe-weather work, poor cable routing, missing inspection, or unauthorized modification.

Risk Rating Method

Qualitative ratings are used for screening. High risks require additional risk reduction before release. Medium risks require defined controls and documented review. Low residual risks are accepted only when the controls are implemented and the remaining risk is communicated where necessary.

Hazard and Risk Register

ID	Hazard / situation	Possible harm	Initial	Risk-reduction measures	Residual	Verification
R01	Work at height during installation or service	Serious injury or fatality	High	Manual warning; trained personnel; site access and fall-protection controls.	Med.	Manual review; installer procedure
R02	Tools, bracket, fasteners, or sensor fall from elevation	Impact or head injury	High	Secure parts and tools; exclusion zone; stable temporary retention during assembly.	Low	Installation trial; manual review

ID	Hazard / situation	Possible harm	Initial	Risk-reduction measures	Residual	Verification
R03	Sharp edges, burrs, or adjustment slots	Cuts or puncture	Med.	Deburr and edge-finish parts; glove caution; incoming and final inspection.	Low	Edge inspection
R04	Pinch point during alignment or tightening	Finger or hand injury	Med.	Provide hand clearance where practicable; safe assembly sequence; caution statement.	Low	Design review; installation trial
R05	Incorrect, missing, or loosened fasteners	Movement or detached equipment	High	Specified hardware and torque; retention feature where required; final inspection and maintenance check.	Low	Torque record; retention test
R06	Mount attached to inadequate, damaged, or corroded support	Collapse or detachment	High	Require installer verification of support suitability and attachment integrity; define applicable limits.	Med.	Manual review; load-interface review
R07	Exposure to energized equipment near installation location	Electric shock or burns	High	De-energize where possible; qualified personnel; site electrical-safety procedures.	Med.	Manual review; installation review
R08	Required bonding omitted, interrupted, or unreliable	Shock, surge damage, or unsafe conductive part	Med.	Define protective/ functional bonding decision; provide connection and	Low	Continuity test; drawing review

ID	Hazard / situation	Possible harm	Initial	Risk-reduction measures	Residual	Verification
				verification instructions where applicable.		
R09	Cable crushed, pinched, abraded, strained, or sharply bent	Electrical fault, loss of function, unreliable measurement	Med.	Cable-routing provisions; bend-radius and strain guidance; post-installation inspection.	Low	Routing inspection; installation trial
R10	Strong wind, lightning, ice, rain, or unsafe weather during work	Fall, loss of control, or lightning injury	High	Prohibit work in unsafe weather; require site weather assessment.	Low	Manual review
R11	Solar-heated metal surface	Contact burn	Med.	Surface-temperature review; glove/ cooling caution.	Low	Temperature assessment where needed
R12	Corrosion, vibration, fatigue, or environmental degradation	Delayed structural failure or detachment	Med.	Suitable materials/ coatings; environmental verification; periodic inspection and replacement criteria.	Low	Material review; corrosion/load testing
R13	Over-tightening damages bracket, threads, or sensor interface	Reduced strength or equipment damage	Med.	Maximum torque; compatible tools; assembly inspection.	Low	Torque validation; inspection
R14	Unauthorized modification or unapproved parts	Unpredictable failure or unsafe installation	High	Prohibit modification; control compatible parts; change control.	Low	Manual/BOM review

3.6.1 Risk-Reduction Measures

Inherently safe design measures

- Deburred and suitably finished edges.
- Mechanically stable interfaces and suitable fastener engagement.
- Corrosion-resistant materials or qualified protective finishes.
- Cable routing that avoids sharp edges, crushing, and excessive strain.
- Design provisions for bonding where required by the electrical safety concept.

Safeguards and complementary measures

- Specified fasteners, torque values, and retention features.
- Defined load and environmental limits.
- Inspection criteria for deformation, corrosion, fastener security, cable condition, and bonding integrity.
- Safe packaging and handling provisions for loose or heavy components.

Information for use

- Installation competence and work-at-height warning.
- Falling-object exclusion-zone warning.
- Structural suitability and fastener torque instructions.
- Electrical isolation and bonding instructions where applicable.
- Weather, hot-surface, sharp-edge, cable-routing, modification, and maintenance notices.
- Clear residual risk statement and inspection requirements.

4 Transport, storage, and unpacking

4.1 Transport

- Always transport the product in its original packaging.
- Ensure that the product is not mechanically stressed during transport.

4.2 Storage

- Store within the specified temperature ranges. See General technical data.
- Store in dry area.
- Store in original box where possible.

4.3 Unpacking

- Carefully remove the product from the packaging.
- Check that the delivery is complete and undamaged.
- If you find any damage or if the delivery is incomplete, then immediately contact your supplier or manufacturer.
- Keep the original packaging for any further transportation.

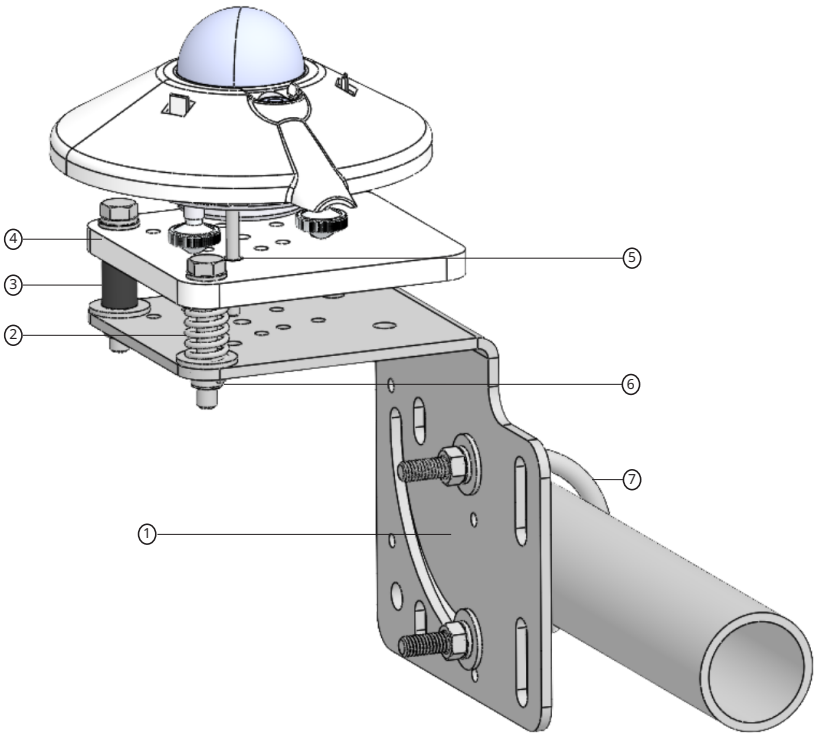
5 Product description

5.1 Design and function

The PM-Series Pyranometer Mount is a metal mounting assembly designed to securely install and align pyranometers on outdoor structures such as masts, crossarms, poles, rails, rooftops, and torque tubes. It provides a stable mounting interface for accurate solar irradiance measurements and supports the complete product life cycle, including installation, adjustment, commissioning, inspection, maintenance, and removal. Pro variants include a pre-installed insulated leveling plate for precise sensor alignment.

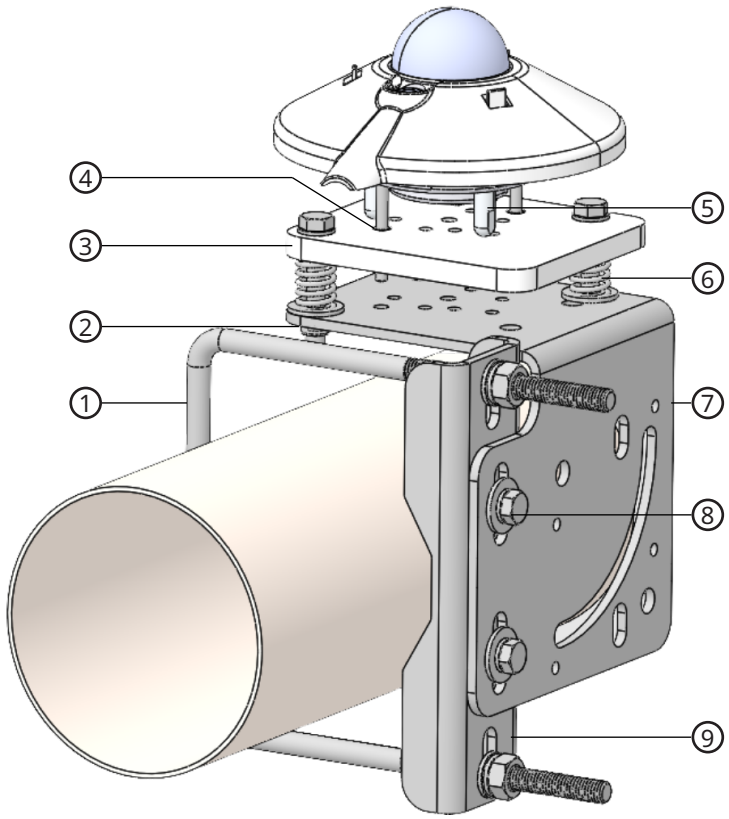
5.2 Product overview

PM100 Pro with AccuTilt Leveling



Item	Component
1	Pyranometer mounting bracket
2	Compression springs
3	Fixed spacer and O-ring
4	X-Y Axis leveling plate
5	M5 captive nut
6	M8 captive nuts
7	M8 round U-bolt

PM200 Pro with AccuTilt Leveling



Item	Component
1	M10 square U-bolt
2	M8 captive nut
3	X-Y Axis Leveling Plate
4	M5 captive nut
5	Fixed foot
6	Compression springs
7	Pyranometer mounting bracket
8	M8 captive nut
9	Clamp bracket

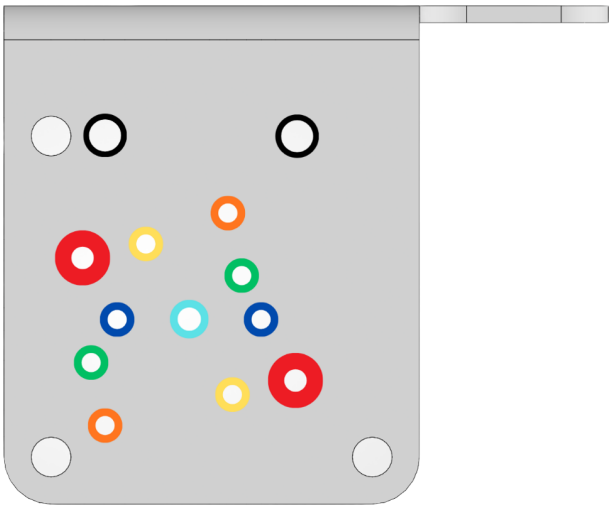
5.3 Specifications

This section provides an overview of the mounting hole locations and their compatibility with supported pyranometer models and mounting structures.

5.3.1 Sensor Mounting

Sensor Mounting

The PM-Series mounting bracket can mount different sensors in different orientations. The primary SMP pyranometer mounting holes have captive nuts for overhead bolt installation.
All other sensor mounting hardware must be user-supplied. Both the pyranometer mounting bracket and X-Y axis leveling plate have similar hole patterns.



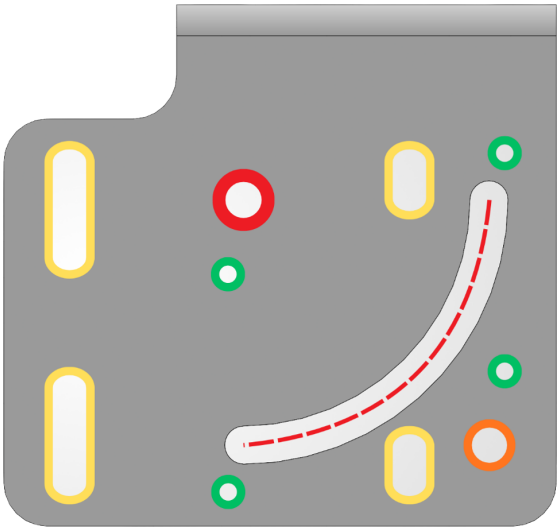
Item	Color	Purpose
1	Red	Primary SMP pyranometer mounting holes with captive nuts (M5)
2	Orange	Rotated SMP pyranometer mounting holes (5.5mm)
3	Yellow	SP Lite2 pyranometer mounting holes (5.5mm)
4	Green	Rotated SP Lite2 pyranometer mounting holes (5.5mm)
5	Blue	RC22 reference cell mounting holes (5.5mm)
6	Cyan	Other pyranometer center mounting hole (6.6mm)
7	Black	Other mounting holes for fixed-tilt arrays (9mm)

5.3.2 Structure Mounting

Structure Mounting

The PM-Series mounting bracket can mount to different outdoor structures in different ways. A round U-bolt and its associated hardware are provided for the primary U-bolt mounting hole / slot for the PM100 / PM100 Pro models. All models include an M8 common hardware bag. All other structure mounting hardware must be user-supplied.

The mount is compatible with mast and crossarm tube outer diameters ranging from 33.4 mm to 60.3 mm. For solar tracker applications, it can also be mounted on torque tubes with diameters ranging from 101.6 mm to 152.4 mm.



Item	Color	Purpose
1	Red	Primary U-bolt mounting hole / slot with 90-degree tilt range (11mm)
2	Orange	Secondary U-bolt mounting hole (11mm)
3	Yellow	U-bolt or hose clamp mounting slots for large diameter vertical tubes or other racking (11mm, 98.5mm center-to-center)
4	Green	2x MT2 digital temperature sensor mounting holes (5.5mm)

6 Installation

The following are the four mounting installation configurations available for the PM-Series Pyranometer Mount:

6.1 PM100 Crossarm/Mast Pyranometer Mount Installation

✓ **Required items**:
- Pyranometer mounting bracket
- M8 common hardware bag
- M8 mast/crossarm hardware bag

✓ **Required tools**:
- 13mm wrench

▸ Select a suitable crossarm or mast location with an unobstructed view of the sky.

▸ Position the mounting bracket against the crossarm or mast.

▸ Place the round U-bolt from the M8 common hardware bag around the mast or crossarm and insert the hardware through the mounting bracket holes. For mounting hole locations and compatibility details, see Structure Mounting [▸ 22].

▸ Install the washers, lock washers, and nuts.

▸ Tighten the nuts until the bracket is securely attached.

▸ Position the pyranometer on the mounting plate and align the mounting points on the instrument with the applicable holes in the mounting bracket. For mounting hole locations and compatibility details, see Sensor Mounting [▸ 21].

▸ Insert bolts provided with pyranometer and lightly tighten them to hold the pyranometer in place.

▸ Adjust the leveling feet until the pyranometer level bubble is centered.

▸ Fully tighten the captive screws to securely fasten the pyranometer to the mount.

▸ Route and secure the sensor cable to prevent strain and movement.

▸ Perform a final inspection to ensure all fasteners are tightened.

6.2 PM100 Pro with AccuTilt Leveling Installation

✓ **Required items**:
- Pyranometer mounting bracket
- M8 common hardware bag
- M8 mast/crossarm hardware bag

✓ **Required tools**:
- 13mm wrench

▸ Select a suitable crossarm or mast location with an unobstructed view of the sky.

▸ Position the mounting bracket against the crossarm or mast.

▸ Place the round U-bolt from the M8 common hardware bag around the mast or crossarm and insert the hardware through the mounting bracket holes. For mounting hole locations and compatibility details, see Structure Mounting [▸ 22].

▸ Install the washers, lock washers, and nuts.

▸ Tighten the nuts until the bracket is securely attached.

- Position the pyranometer on the X-Y axis leveling plate and align the mounting points on the instrument with the applicable holes in the X-Y axis leveling plate. For mounting hole locations and compatibility details, see Sensor Mounting [▸ 21].
- Insert the bolts provided with pyranometer and tighten them to hold the pyranometer in place.
- Adjust the leveling screws with the 13mm wrench until the bubble level is centered.
- Route and secure the sensor cable.
- Perform a final inspection before commissioning.

6.3 PM200 Torque Tube Pyranometer Mount Installation

✓ **Required items**:
- Pyranometer mounting bracket
- M8 common hardware bag
- M8 mast/crossarm hardware bag

✓ **Required tools**:
- 13mm wrench

- Install the clamp bracket to the pyranometer mounting bracket using the M8 screws, oversized washers and lock washers . For mounting hole locations and compatibility details, see Structure Mounting [▸ 22].
- Select a suitable mounting location on a torque tube with an unobstructed view of the sky.
- Place the clamp bracket against the torque tube.
- Position the square U-bolt around the torque tube and insert it through the clamp bracket.
- Install the M10 washers, lock washers, and nuts.
- Tighten the nuts using the 17mm spanner until the bracket is securely attached.
- Position the pyranometer on the mounting plate and align the mounting points on the instrument with the applicable holes in the mounting bracket. For mounting hole locations and compatibility details, see Sensor Mounting [▸ 21].
- Insert bolts provided with pyranometer and lightly tighten them to hold the pyranometer in place.
- Adjust the leveling feet until the pyranometer level bubble is centered.
- Fully tighten the bolts to securely fasten the pyranometer to the mount.
- Route and secure the sensor cable to prevent strain and movement.
- Perform a final inspection to ensure all fasteners are tightened.

6.4 PM200 Pro with AccuTilt Leveling Installation

✓ **Required items**:
- Pyranometer mounting bracket
- M8 common hardware bag
- M8 mast/crossarm hardware bag

✓ **Required tools**:
- 13mm wrench

- Install the clamp bracket to the pyranometer mounting bracket using the M8 screws, oversized washers and lock washers. For mounting hole locations and compatibility details, see Structure Mounting [▸ 22].
- Select a suitable mounting location on a torque tube with an unobstructed view of the sky.
- Place the clamp bracket against the torque tube.
- Position the square U-bolt around the torque tube and insert it through the clamp bracket.

- Install the M10 washers, lock washers, and nuts.
- Tighten the nuts using the 17mm spanner until the bracket is securely attached.
- Replace the adjustable leveling feet of the pyranometer with the fixed feet.
- Position the pyranometer on the mounting plate and align the mounting points on the instrument with the applicable holes in the mounting bracket. For mounting hole locations and compatibility details, see Sensor Mounting [▸ 21].
- Insert the bolts provided with pyranometer and tighten them to hold the pyranometer in place.
- Adjust the leveling screws with the 13mm wrench until the bubble level is centered.
- Route and secure the sensor cable.
- Perform a final inspection before commissioning.

7 Maintenance

Periodically inspect the mount, fasteners, and leveling components for signs of loosening, corrosion, or damage. Verify that all fasteners are securely tightened and that the pyranometer remains level to ensure accurate measurements.

8 Repair

8.1 Customer support

- Have repairs carried out by service personnel.
- Only carry out repairs yourself, if you have first consulted .
- Contact your local representative: www.otthydromet.com/en/contact-us
- Include the following information:

– instrument model
– instrument serial number
– firmware version
– details of the fault or problem
– examples of data files
– readout device or data acquisition system
– interfaces and power supplies
– history of any previous repairs or modifications
– pictures of the installation
– overview of the local environment conditions

Kipp and Zonen repair service

9 Notes on disposing of old devices

Member States of the European Union

In accordance with the German Electrical and Electronic Equipment Act (ElektroG; national implementation of EU Directive 2012/19/EU), takes back old devices in the Member States of the European Union and disposes of them in the proper manner. The devices that this concerns are labeled with the following symbol:



- For further information on the take-back procedure contact :

Service & Technical Support
Delftechpark 36
2628 XH Delft
The Netherlands
phone: +31 15 2755 210
email: solar-info@otthydromet.com

All other countries

- Dispose of the product in the proper manner following decommissioning.
- Observe the country-specific regulations on disposing of electronic equipment.
- Do NOT dispose of the product in household waste.

KIPP & ZONEN

Passion for Precision

Contact Information